Biogeochemistry **55:** 363–364, 2001.

Contents Volume 55 2001

Volume 55 No. 1 August 2001

ANTJE RUSCH, STEFAN FORSTER & MARKUS HUETTEL / Bacteria, diatoms and detritus in an intertidal sandflat subject to advective transport across the water-sediment interface 1–27

PEDER G. ERIKSSON / Interaction effects of flow velocity and oxygen metabolism on nitrification and denitrification in biofilms on submersed macrophytes 29–44

WOLFGANG WILCKE, SYAFRIMEN YASIN, CARLOS VALAREZO & WOLFGANG ZECH / Change in water quality during the passage through a tropical montane rain forest in Ecuador 45–72

ROBERT S. DUNGAN & WILLIAM T. FRANKENBERGER, JR / Biotransformations of selenium by *Enterobacter cloacae* SLD1a-1: Formation of dimethylselenide 73–86

LEON P.M. LAMERS, G. ELS TEN DOLLE, SERGE T.G. VAN DEN BERG, SEBASTIAAN P.J. VAN DELFT & JAN G.M. ROELOFS / Differential responses of freshwater wetland soils to sulphate pollution 87–102

Volume 55 No. 2 September (I) 2001

KLAUS KAISER, GEORG GUGGENBERGER, LUDWIG HAUMAIER & WOLFGANG ZECH / Seasonal variations in the chemical composition of dissolved organic matter in organic forest floor layer leachates of old-growth Scots pine (*Pinus sylvestris* L.) and European beech (*Fagus sylvatica* L.) stands in northeastern Bavaria, Germany 103–143

PETER VAN BODEGOM, JAN GOUDRIAAN & PETER LEFFELAAR / A mechanistic model on methane oxidation in a rice rhizosphere 145–177

LIANNE M. KURINA & PETER M. VITOUSEK / Nitrogen fixation rates of *Stereocaulon vulcani* on young Hawaiian lava flows 179–194

SUSAN K. SHERROD & TIMOTHY R. SEASTEDT / Effects of the northern pocket gopher (*Thomomys talpoides*) on alpine soil characteristics, Niwot Ridge, CO 195–218

Volume 55 No. 3 September (II) 2001

D.W. JOHNSON, R.B. SUSFALK, R.A. DAHLGREN, T.G. CALDWELL & W.W. MILLER / Nutrient fluxes in a snow-dominated, semi-arid forest: Spatial and temporal patterns 219–245

WENDY J. PABICH, IVAN VALIELA & HAROLD F. HEMOND / Relationship between DOC concentration and vadose zone thickness and depth below water table in groundwater of Cape Cod, U.S.A. 247–268

CHARLES A.Z. BUXBAUM, CHRISTOPHER A. NOWAK & EDWIN H. WHITE / Long-term soil nutrient dynamics and lateral nutrient movement in fertilized and unfertilized red pine plantations 269–292

CHRISTOPHER A. SCOTT, MICHAEL F. WALTER, GREGORY N. NAGLE, M. TODD WALTER, NATALIE V. SIERRA & ERIN S. BROOKS / Residual phosphorus in runoff from successional forest on abandoned agricultural land: 1. Biogeochemical and hydrological processes 293–309

CHRISTOPHER A. SCOTT & MICHAEL F. WALTER / Residual phosphorus in runoff from successional forest on abandoned agricultural land: 2. Hydrological and soluble reactive P Budgets 311–325

STEPHAN SOLINGER, KARSTEN KALBITZ & EGBERT MATZNER / Controls on the dynamics of dissolved organic carbon and nitrogen in a Central European deciduous forest 327–349

Instructions for Authors 351–360

Author Index 361

Volume Contents 363–364